(3)

2

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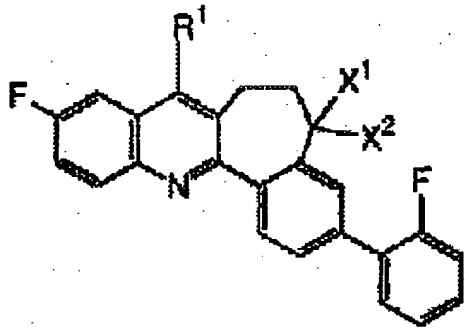
Search scope: US Granted US Applications EP-A EP-B WO JP (bibliographic data only) DE-C,B DE-A DE-T DE-U GB-A FR-A
Years: 1981-2005
Patent/Publication No.: ((JP10231289))



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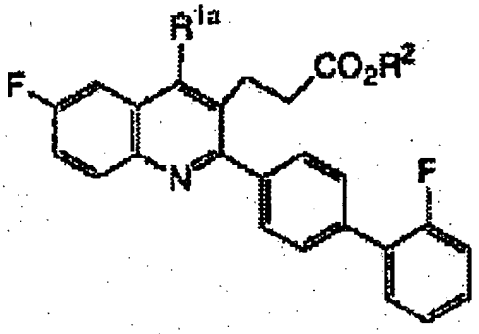

II

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JP10231289 A
TETRACYCLIC QUINOLINE DERIVATIVE
KYOWA HAKKO KOGYO CO LTD

Abstract:

PROBLEM TO BE SOLVED: To obtain the subject derivative useful as an immunosuppressant, etc., having an immunosuppressive activity and consisting of a specific tetracyclic quinoline derivative obtained by reacting 5-fluoroisatin with 2- fluorophenylbenzoylbutyrate. SOLUTION: This compound is a new tetracyclic quinoline derivative expressed by formula I {$R^1$is COOH, CHO, COY [Y is NR^3R^4($R^3$and $R^4$are each H, a 1-18C alkyl, an aryl, a substituted aryl, or a heterocycle produced by combining $R^3$and R^4together with their adjacent nitrogen atom), OR^5($R^5$is a 1-4C alkyi, etc.) or CH_2Z (Z is a halogen or OH), $X^1$is H or OH; $X^2$is H; or $X^1$and X^2 express an oxygen atom together with each other; however, when $R^1$is COOH, $X^2$and X^1must not be H at the same time.} and useful as an immunosuppressant, etc. This compound is obtained by subjecting a quinoline derivative expressed by formula II (R^{1a} is $CONR^3R^4$or CH_2Z; $R^2$is H, a 1-4C alkyl a or (substituted) aralkyl] to Friedel-Crafts reaction.

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Application No. 09333776 JP09333776 JP, **Filed** 19971204, **A1 Published** 19980902

Int'l Class: C07D22118
A61K03147

Priority:

JP 08326603 19961206
JP 08341051 19961220

Patents Citing This One (1):

- WO0124785 A2 20010412 INSTITUTE OF MOLECULAR AND CELL BIOLOGY
  DIHYDROOROTATE DEHYDROGENASE INHIBITORS FOR THE TREATMENT OF VIRAL- MEDIATED DISEASES